Fluid Dynamics Problems And Solutions

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The solution p u y C does not satisfy the equation and is already included in the homogeneous solution. The second simplest solution is p u y Qy . (1.15) The constant term does not need to be included. Inserting Eq. (1.15) into the governing equation gives w w yy p y p :0 /u y V u y B VQ B Q B V. (1.16) Hence the solution has the form

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SOLUTION First determine the head flow characteristic for the system. H = developed head of the pump = 8 + 4fLu2/2gd + minor losses No details are provided about minor losses so only the loss at exit may be found. hL = 4fLu2/2gd + u2/2g H = = 8 + 4fLu2/2gd + u2/2g u = 4Q/d2 = 127.3 Q

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